Abgrid Biaxial

Data Sheet

ABGRID BIAXIAL is a range of rectangular geogrids made from extruded polypropylene which is then perforated and worked bi-axially to form a grid of polymer ribs with a high degree of molecular orientation. The orientation continues through the integral junctions.
The major application is for use in reinforcement for all civil engineering applications including environmental, infrastructure and marine engineering projects.
ABGRID BIAXIAL geogrids provide cost-effective tensile reinforcement for base courses in railway and highway foundation engineering, steep sided soil embankments and retaining walls. They are also used for foundation reinforcement of earth embankments, in working platforms, for spanning voids and sink holes and for sludge lagoon closures.

Geogrid Properties		**20 / 20**	**30 / 30**	**40 / 40**	
Mesh size MD / CMD	(mm)	38 / 38	38 / 38	38 / 38	
Mass per unit area	(g/m²)	220	330	500	EN ISO 9864
Tensile strength MD / CMD [4]	(kN/m)	20 / 20	30 / 30	40 / 40	EN ISO 10319
Force at 2% elongation MD / CMD [4]	(kN/m)	7 / 7	11 / 11	14 / 14	EN ISO 10319
Force at 5% elongation MD / CMD [4]	(kN/m)	15 / 15	21 / 21	28 / 28	EN ISO 10319
Type and material		Bi-axial extruded polypropylene.			
Durability					
Resistance to UV – Strength retained 50MJ/m²	(%)	> 60			EN 12224
Resistance to chemicals – Strength retained 3 ≤ pH ≤ 12	(%)	> 80			EN 14030
Design life		100 years in natural soils with 4 ≤ pH ≤ 9 and soil temperatures ≤ 25°C on the basis of the results of test method B.4.2.2 (112 days) of EN 13252:2016 Annex B.			
Product Dimensions					
Width	(m)	3.95 4.00	3.95 4.00	3.95 4.00	
Length	(m)	50 75	50 75	30 50	

1 The values given are determined from statistical Interpretation of test results obtained in our laboratories and are subject to tolerances. In line with our policy of continuous improvement the right is reserved to make changes without notice at any time.
2 Final determination of the suitability of any information is the sole responsibility of the user. ABG will be pleased to discuss the use of this or any other product but responsibility for selection of a material and its application in any specific project remains with the user.
3 The tolerance on roll length is ±1.5% and on roll width is ±1.0%.
4 Tolerance on strength is ±15% of the typical value.

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